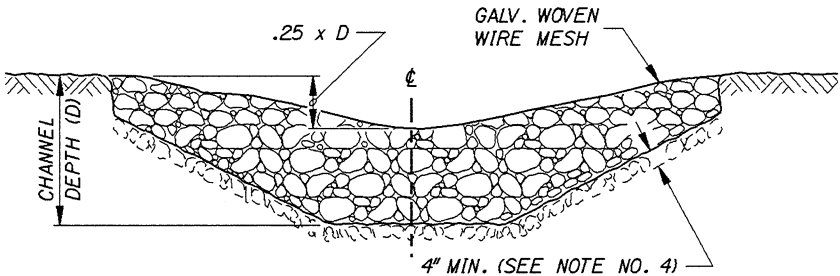
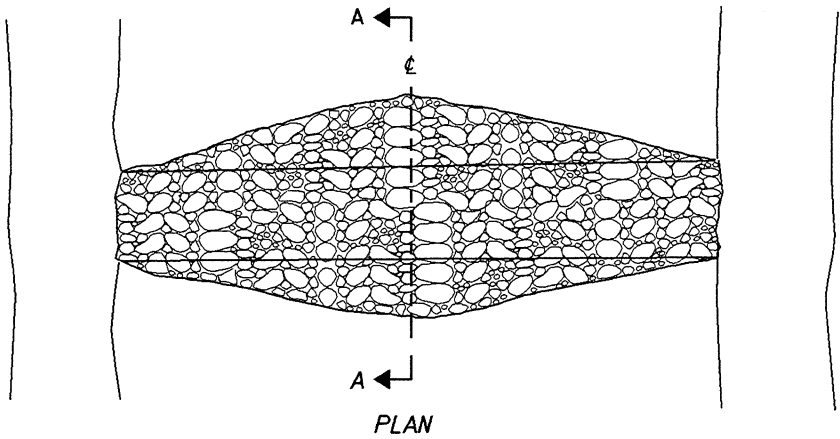
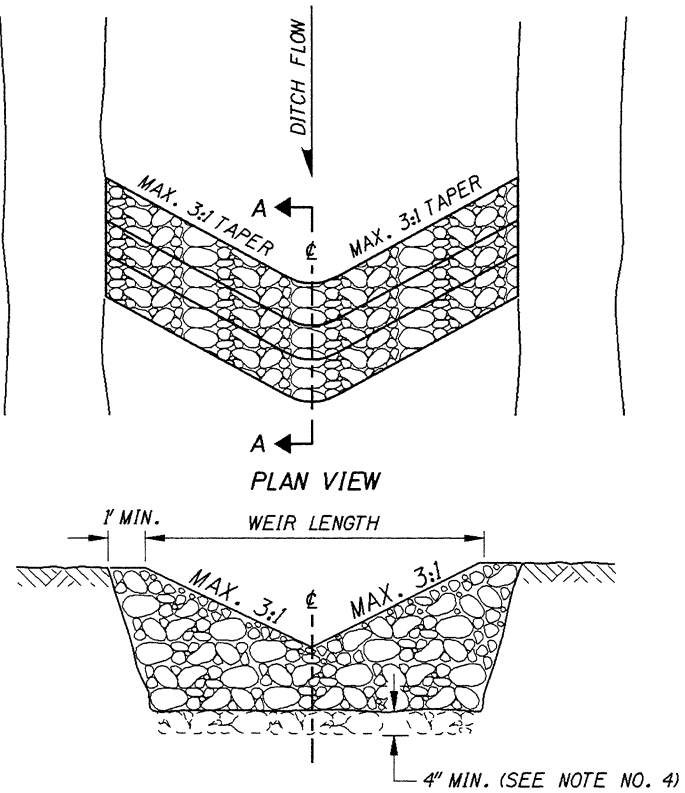


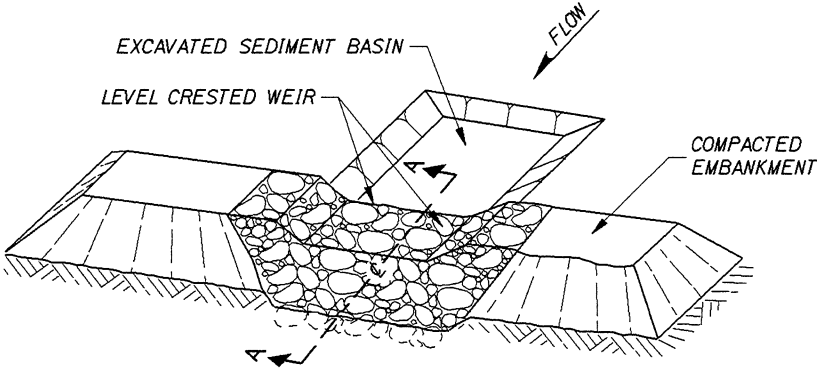
PERSPECTIVE VIEW - AT TOE OF SLOPE
FILTER BERM - TYPE 1



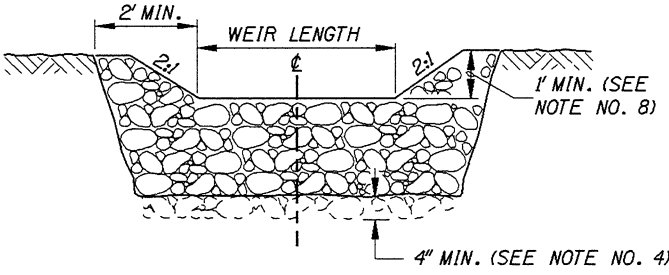
ELEVATION - AT CHANNEL SECTION
FILTER DAM - TYPES 2 & 3



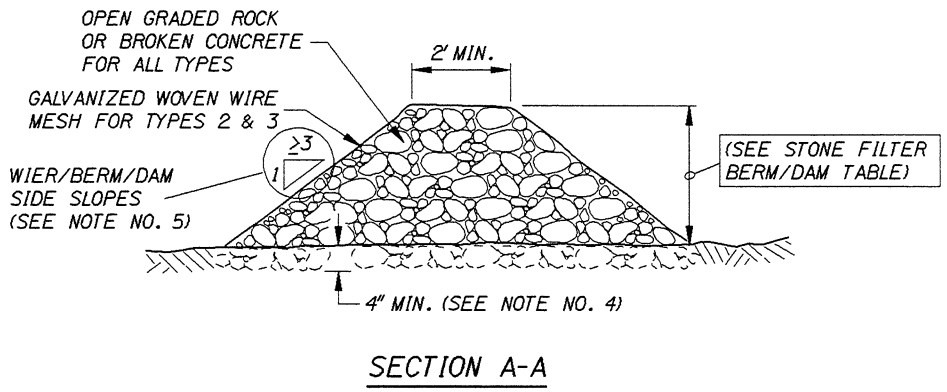
ELEVATION
"V" NOTCH WEIR - TYPE 2



ISOMETRIC VIEW - WITH SEDIMENT TRAP



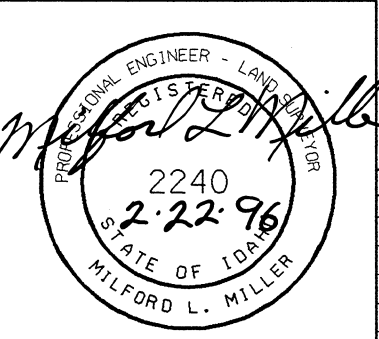
ELEVATION
LEVEL CRESTED WEIR - TYPE 2



STONE FILTER TYPE TABLE			
TYPE	HEIGHT	WIRE MESH	REMARKS
1	18"	NO	SEE NOTE NO. 7
2	18"	YES	SEE NOTE NOS. 8-11
3	36"	YES	SEE NOTE NOS. 10-12

NOTES

1. THE GENERAL NOTES FOR ALL P-2 SERIES STANDARD DRAWINGS (PERMANENT EROSION CONTROL) ARE GIVEN ON STANDARD DRAWING P-2-A (PERMANENT EROSION CONTROL GABIONS & REVERT MATTRESSES).
2. STONE FILTER DEVICES SHOULD BE PLACED WHERE EROSION IS ANTICIPATED, SUCH AS AT THE TOE OF SLOPES, UPSTREAM AND/OR DOWNSTREAM OF DRAINAGE STRUCTURES, IN ROADWAY DITCHES, AND IN CHANNELS TO COLLECT SEDIMENT.
3. THE OUTLET SIDE OF STONE FILTER DEVICES SHALL BE DIRECTED ONTO A STABILIZED AREA SUCH AS VEGETATION AND/OR STONE.
4. ALL STONE FILTER DEVICES SHOULD BE EMBEDDED A MINIMUM OF 4 INCHES INTO THE EXISTING GROUND/EMBANKMENT.
5. ALL STONE FILTER DEVICE SIDE SLOPES SHOULD BE 3:1 OR FLATTER. WEIRS/BERMS/DAMS WITHIN THE SAFETY CLEAR ZONE SHALL HAVE SLOPES OF 6:1 OR FLATTER.
6. TYPE 1 STONE FILTER BERMS MAY BE USED ON SLOPE TOES, AROUND INLETS, IN SHALLOW DITCHES, AT DIKE AND SWALE OULETS. THIS TYPE OF STONE FILTER BERM IS RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA OF 5 ACRES OR LESS. TYPE 1 BERMS MAY NOT BE USED IN CONCENTRATED HIGH VELOCITY FLOWS (>8FT./SEC.) IN WHICH AGGREGATE WASH-OUT MAY OCCUR. SANDBAGS MAY BE EMBEDDED AT THE FILTER DAM EDGES (4" OR MORE) FOR BETTER FILTERING EFFICIENCY WHEN CALLED FOR ON THE PLANS OR WHEN DIRECTED BY THE ENGINEER.
7. TYPE 2 STONE FILTER WEIRS/DAMS MAY BE USED IN DITCHES AND AT DIKE AND SWALE OULETS.
8. TYPE 2 STONE FILTER LEVEL CRESTED WEIRS SHALL MAINTAIN A MINIMUM OF 1 FOOT (1') BETWEEN THE TOP OF WEIR AND THE TOP OF THE EMBANKMENT. THE "V" NOTCH OPTION IS INTENDED TO BE USED ON HIGH VELOCITY FLOWS (>8FT./SEC.).
9. THE STONE FILTER DAMS TYPES 2 & 3 SHOULD BE SECURED WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1" DIAMETER HEXAGONAL OPENINGS. THE STONE SHALL BE PLACED IN THE MESH TO THE HEIGHT AND SLOPE SPECIFIED. THE MESH SHOULD BE FOLDED AT THE UPSTREAM SIDE OVER THE AGGREGATE AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES, HOG RINGS, OR LOCKING PLASTIC TIES.
10. STONE FILTER DAMS ARE TO BE CONSTRUCTED DOWNSTREAM FROM THE DISTURBED AREAS TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF AND/OR CONCENTRATED FLOW. DAMS SHOULD BE SIZED TO FILTER A MAXIMUM FLOW THROUGH RATE OF 60 GPM/FT.² OF DAM CROSS SECTIONAL AREA. A FIVE YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE.
11. TYPE 3 STONE FILTER DAMS MAY BE USED IN STREAMS AND CHANNELS. THEY SHOULD BE SECURED TO THE STREAM BED AND EMBANKMENT EDGES.
12. NOT TO SCALE.



REVISIONS							
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE
①	5-95	MSM	②	2-96	MSM		
③			④				
⑤			⑥				
⑦			⑧				

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DRAWING DATE:
JANUARY, 1994

IDAHO
TRANSPORTATION
DEPARTMENT
BOISE, IDAHO

IDAHO
TRANSPORTATION
DEPARTMENT
CHIEF OF HIGHWAY OPERATIONS
CHIEF ENGINEER

STANDARD DRAWING
PERMANENT EROSION CONTROL
STONE FILTER WEIRS/BERMS/DAMS
REQUIRES STD. DWG. P-2-A

FORM CATALOG NUMBER
STANDARD DRAWING NO.
P-2-B
SHEET 1 OF 1